

15
FIRST EDITION . .
Price—Threepence.

DESCRIPTIVE CATALOGUE

OF . . .

APPARATUS AND MATERIAL

. . . FOR THE . . .

Photography of Colour.

Natural Colour Photography.

(SANGER SHEPHERD PROCESS).

Light Filters, or Screens for Three-Colour Work.

(MEDAL ROYAL PHOTOGRAPHIC SOCIETY, 1899).

The Cadett Measured Light Filters for Orthochromatic
Photography.

Light Filters for Photomicrography.

Makers of the Sanger Shepherd Three-Colour Filters
for Trichromatic Type-Printing Process.

(MESSRS. PENROSE & CO., SOLE AGENTS).

Photo Spectroscopes. Rotating Sectors.

Light Measuring Apparatus.

SANGER SHEPHERD & CO.,

Scientific Instrument Makers,

5, 6 and 7, Gray's Inn Passage,

Red Lion Street, Holborn, London, W.O.



PROVISIONAL CATALOGUE

... OF ...

APPARATUS AND MATERIALS

... FOR ...

Natural Colour Photography

SANGER SHEPHERD PROCESS.



*This List cancels all
previous quotations.*

Terms.—All prices are strictly net. It is respectfully requested that first orders should be accompanied by a remittance. Remittances should adequately cover cost of goods and carriage; in no case can goods be sent in excess of the sum forwarded, but any excess will be returned on completion of order. Compliance with this condition insures prompt dispatch of goods.

Cheques.—Cheques should be drawn in favour of Sanger Shepherd and Co. and crossed London and Westminster Bank, Bloomsbury Branch. Postal Orders to be made payable at Holborn Post Office, Gray's Inn, W.C.

Deposit Accounts.—For the convenience of customers residing in the country or abroad, and in order to save the expense of small remittances, we open deposit accounts for any desired amount. Deposit accounts cannot be overdrawn.

Approval.—We do not supply goods on approval.

Packing and Carriage.—Packing and carriage are charged extra. Packing boxes, cases, etc., are supplied at lowest possible rates, and are not returnable. Unless otherwise instructed, foreign orders are sent, if possible, by Parcel Post, or if too heavy for post, by first steamer, and packed in tin-lined cases. All goods are packed with the utmost care, but we cannot hold ourselves responsible for damage in transit.

Whilst every endeavour is made to ensure the highest quality of workmanship and material in all our goods, we do not guarantee their efficiency or quality, but any reasonable complaint will always receive prompt attention.

Hours—9 a.m. to 6 p.m.; Saturdays, 9 a.m. to 1 p.m.

Natural Colour Photography. .

SANGER SHEPHERD PROCESS.

A SIMPLE, INEXPENSIVE, AND RELIABLE
PROCESS, BASED UPON SOUND SCIENTIFIC
PRINCIPLES, FOR OBTAINING PHOTOGRAPHS
OF ANY OBJECT IN ITS NATURAL COLOURS,
FAITHFULLY REPRODUCING EVERY SHADE
AND TINT, IN A MANNER ABSOLUTELY
SATISFYING TO THE EYE

PHOTOGRAPHY in colour no longer means a photograph printed in colour, nor yet a coloured photograph, both of which terms are apt to be associated in the artistic mind with recollections of attempts of a very unsatisfactory nature. As we speak of it to-day, it means the final outcome and practical result of long series of experiments carried out by us during the last thirty years. These experiments are based upon what is known as the Young-Helmholtz theory of colour vision, which assumes that there are three fundamental colour sensations—a red, a green, and a blue-violet, which may possibly be due to three kinds of nerves in the human eye, and that all other colours are compound sensations. Very many attempts have been made to introduce methods of obtaining photographs in colour based upon this theory.

Indeed, from the time when Professor Clerk-Maxwell first shewed a photograph in natural colours upon the Lantern screen at the Royal Institution in 1861, we have steadily progressed towards the results we are able to shew at the present day.

With at least one of these attempts, the public are now fairly familiar. Mr. Frederick Ives, of Philadelphia, succeeded in producing by his Krömsköp system of Colour Photography a colour record or kromogram, which, when viewed in a special instrument had an effect faithful to the original and pleasing to the eye. Since Mr. Ives left this country, imitations of his instrument have been introduced, but none of them give results in any way approaching the success obtained by Mr. Ives. The difficulties and objections to the practical use of this process are however obvious. The kromograms can only be inspected either in a special viewing instrument of a necessarily very delicate nature or by projection upon a screen by means of the triple lantern. Only a very small picture can be shewn with the latter instrument on account of the loss of light through the colour filters, about a 2 feet 6 inches disc with a mixed jet limelight, or a 3 feet 6 inches disc with a very powerful electric light being the practical limit of size for a brilliant picture.

By the process now under consideration, however, all these difficulties are avoided, three negatives (or colour records) are taken by the action of light of the three primary colour sensations acting in accordance with their respective power to excite the human eye ; from these negatives, three coloured prints upon specially prepared transparent media are produced, which, when mounted in superposition, exactly reproduce the object photographed.

By this means the necessity for special apparatus for

viewing or projection is entirely obviated. Lantern slides by this process are as transparent as the best hand-coloured slides although, of course, infinitely superior in delicacy and accuracy of colouring—indeed, no written description can convey any idea of the beauty of the results, they must be seen to be appreciated. They may be projected up to discs of 12 feet by the ordinary mixed jet limelight or to 20 feet or more by the electric arc light.

Furthermore, the separate pictures may be viewed in the hand or the stereoscopic pictures, in any ordinary stereoscope, either of the revolving or portable hand-form. There is no difficulty about registration and no complicated delicate viewing apparatus to be constantly getting out of order, neither is it necessary to have a special lamp for viewing the pictures at night.

The method of the preparation of the transparencies is very simple. The colour record negatives of landscapes, portraits, still life objects, microscopic sections, polariscopic objects, etc., are secured by means of a repeating back which may be attached to any ordinary front focussing camera. This Repeating Back is furnished with a set of measured three colour filters secured in a frame of the same size as the dark slide. The dark slide takes a plate 8 by $3\frac{1}{8}$ inches, and the three exposures are secured upon the same plate, a single movement of the dark slide changing both the plate and the colour filter. The impressions from the negatives are printed upon the specially prepared plates and films we supply, one being tinted with our staining solutions to a bluish green colour (or minus red), another to a pink (or minus green), and the third to a yellow (or minus blue) colour. The three prints are then bound together in superposition to form the finished picture. The whole of the necessary apparatus is

simple and inexpensive, and as most of the operations are perfectly familiar ones to the intelligent amateur, perfect results can be secured with very little trouble.

Descriptions of more elaborate cameras for taking all three negatives at the same time, specially suited for portrait or landscape work, etc., will be found in our Catalogue, and we shall at all times be ready to advise intending purchasers as to the most suitable outfits to meet their special requirements.

A number of specimen pictures by this process are always on view at our offices.

COMPLETE OUTFIT FOR MAKING NATURAL COLOUR LANTERN SLIDES BY THE SANGER SHEPHERD PROCESS OF NATURAL COLOUR PHOTOGRAPHY.

It is presumed that the purchaser already possesses an ordinary quarter or half-plate front focussing camera.

No. 1 Repeating back for attachment to any £ s. d
quarter or half-plate front focussing camera,
fitted with a set of "Sanger Shepherd" measured
Colour Filters for use with the Cadett Rapid
Spectrum plate and one double dark slide, with
best ebonite draw-out shutters, taking plates
8 × 3½ inches (10 × 8 plate cut in three), large
enough for full-size lantern slides, allowing for
the space taken out of 3½ inches square by
the binding strips 4 10 0

Safe light Lantern, fitted with safe light glasses for
the Rapid Spectrum plate... .. 12 6

Complete Lantern-slide Developing and Printing
Outfit, containing all necessary apparatus—
trays, special printing frames, clips, plates,
films, solutions and materials for developing the
negatives, printing the separate sensation trans-
parencies and mounting, together with examples
of a triple print in various stages... .. 4 4 0

£9 6 6

List of Extra Stock of Material and Apparatus advised for Foreign or Colonial orders.

	£	s.	d.
3 dozen Cadett Rapid Spectrum Plates, $8 \times 3\frac{1}{8}$ inches, at 4/- per dozen	12	0	
3 dozen Cadett Black Tone Lantern Plates, at 1/- per dozen	3	0	
2 Boxes, each containing 3 tubes of No. 1 Sanger Shepherd Universal Developer, at 4/- per box ...	8	0	
3 dozen Sanger Shepherd Films, $6\frac{1}{2} \times 3\frac{1}{4}$, for printing the pink and yellow prints, at $\frac{4}{3}$ per dozen ...	12	9	
1 bottle Sensitizer		9	
3 dozen Cover Glasses, at 9d.	2	3	
1 box special Binders	1	4	
1 Developing Dish for $8 \times 3\frac{1}{8}$ plates	4	6	
1 special Printing Frame	5	6	
2 Polished Plate Front Glasses for ditto, at 2/- ...	4	0	
	<u>£2</u>	<u>12</u>	<u>1</u>

Cost of MATERIALS for each Set of Three Negatives and for each Lantern Slide.

SET OF THREE NEGATIVES—

1 Cadett Rapid Spectrum Plate, $8 \times 3\frac{1}{8}$, at 4/- per dozen	4d.
Developer, Hypo and Varnish	1d.

LANTERN SLIDES—

1 Cadett Black Tone Lantern Plate, at 1/- per dozen ...	1d.
1 Sanger Shepherd special Film for the pink and yellow prints, $6\frac{1}{2} \times 3\frac{1}{4}$ inches, at $\frac{4}{3}$ per dozen	$4\frac{1}{4}$ d.
Sensitizer, Staining Solutions, Varnish, Cover Glass and Binders	$2\frac{3}{4}$ d.
	<u>8d.</u>

THE SANGER SHEPHERD MEASURED COLOUR FILTERS FOR TRICHROMATIC LANTERN-SLIDE WORK.

MEDAL ROYAL PHOTOGRAPHIC SOCIETY, 1899.

Three-Colour Filters, adjusted for the Cadett Spectrum Plate by an improved form of Sir William Abney's Colour Sensitometer, worked glass, for use as caps before or behind the lens.

SQUARE.

(Per set of three.)

2 in.	2½ in.	3¼ in.	4 in.	4½ in.
£3 3s.	£4 4s.	£5 5s.	£8 8s.	£10 10s.

CIRCULAR.

(Per set of three.)

1⅝ in.	2 in.	2½ in.	3¼ in.	4 in.	4½ in.
£3 3s.	£3 10s. 6d.	£4 5s.	£6	£10	£12

Sealed measured Three-Colour Filters for use close to the sensitive plate, identical to the above in absorption but coated on picked plate-glass, yielding good registering negatives if used not more than $\frac{3}{8}$ in. from the sensitive plate, $3\frac{1}{4}$ in. square, £3 10s. per set. Any size made to order.

Three-Colour Filters adjusted to any other brand of plates to special order.

“SLIDE PAST” COLOUR FILTER HOLDERS AND FRAMES.

A very convenient arrangement for holding and rapidly changing the filters for process work and copying, consisting of a polished mahogany case for attachment to the front of the

camera, with board to carry the lens. The red, green and blue-violet filters are mounted side by side in a wooden frame, and the filters are merely pushed into position in the case close behind the lens, correct position being ensured by a jointed brass push-through lever.

A second identical frame is included to carry :—

1. A clear Glass Focussing Dummy.
2. A Cadett "Absolutus" Light Filter.
3. A Cadett "Gilvus" Light Filter.

Stocked in two sizes.

No. 1. For three 2×2 in. Filters, complete with £ s. d.
two frames 1 1 0

No. 2. For three $3\frac{1}{4} \times 3\frac{1}{4}$ in. Filters, complete with
two frames 1 11 6

CROOK-MAXWELL'S PRIMARY RED, GREEN AND BLUE-VIOLET COLOUR FILTERS FOR PHOTO-CHROMOSCOPES OR PROJECTION EXPERIMENTS.

STOCK SIZES.

2 inches square	...	...	£	15	0
$3\frac{1}{4}$ " "	...	...	1	1	0
4 " "	...	...	1	10	0

Any size, circular or square, to order. Prices on receipt of particulars.

DUMMY FILTERS FOR FOCUSsing.

Clear worked glass of the same make and thickness as that used in the Colour Filters.

SQUARE.

1 $\frac{5}{8}$ in.	2 in.	2 $\frac{1}{2}$ in.	3 $\frac{1}{4}$ in.	4 in.
2/6	3/-	4/-	5/-	7/6

CIRCULAR.

1 $\frac{5}{8}$ in.	2 in.	2 $\frac{1}{2}$ in.	3 $\frac{1}{4}$ in.	4 in. diam
3/-	3/9	4/9	6/-	8/6

THE "CADETT" ORTHOCHROMATIC LIGHT FILTERS.

SANGER SHEPHERD & Co., SOLE MAKERS.

For use with the "Cadett" Lightning Spectrum Plate.
Two kinds: The "Absolutus" Filter and the "Gilvus" Filter.

1. THE "ABSOLUTUS." — The "Absolutus" Light Filters are adjusted for the Lightning Spectrum Plates, and will render all colour luminosities correctly, with a small margin of error.

Each Light Filter is carefully tested by us and also by Messrs. Cadett & Neall, with the latest improved form of Sir William Abney's Colour Sensitometer.

These Filters are of no use for any other Orthochromatic Plate than the Lightning Spectrum Plates. The best and most easily arranged position for the Filter is immediately behind the lens in the Camera, care being taken to exclude all reflected light between the Filter and the Lens. The Filter can, however, be placed in any suitable position.

Exposures, when using the "Absolutus" Filter, are increased 20 times under glass or in well-lighted studios, and about 40 times out of doors.

2. THE "GILVUS."—The "Gilvus" Filters are also adjusted for the Lightning Spectrum Plates, and will render the violet, blue and green luminosities correctly, leaving the red luminosities uncorrected. The "Gilvus" Filter is a compromise for use where rapid exposures are necessary, and they give great improvement in Landscape and Portrait work. The exposure is only increased from 4 to 6 times.

N.B.—Care should be taken to avoid leaving these Filters in direct sunshine or long-continued daylight; when not in use they should be kept in the case. The surfaces being optically worked, the Filters should be treated as a lens, and every care taken to avoid scratches.

By special order the Filters can be paired for Stereoscopic Negatives

STANDARD SIZES AND PRICES FOR BOTH KINDS.

	$1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$, & $1\frac{5}{8}$ in.	2 in.	$2\frac{1}{2}$ in.	$3\frac{1}{4}$ in.	4 in.
SQUARE ...	10/-	12/6	18/6	25/-	40/-
CIRCULAR ...	12/6	15/-	20/-	30/-	50/-

SPECIAL SIZES.

An increase of 50 per cent. will be made on the nearest larger standard size, the prices for the $1\frac{5}{8}$ in. size being the minimum.

UNMEASURED LIGHT FILTERS FOR ORTHOCHROMATIC PHOTOGRAPHY.

These are permanently sealed Filters of high luminosity and great transparency, *i.e.*—pure colours without admixture of black, being far superior to the ordinary worked coloured glass.

LIGHT YELLOW, PURE YELLOW, LIGHT AND DARK ORANGE.

The above may be used with any brand of colour sensitive plate, but as the results are inaccurate we do not advise their use.

SQUARE.

1 $\frac{5}{8}$ in.	2 in.	2 $\frac{1}{2}$ in.	3 $\frac{1}{4}$ in.	4 in.
7/6	10/-	12/6	15/-	20/-

CIRCULAR.

1 in.—1 $\frac{5}{8}$ in.	2 in.	2 $\frac{1}{2}$ in.	3 $\frac{1}{4}$ in.	4 in. diam.
8/6	10/-	15/-	20/-	30/-

Filters of any spectroscopic absorption made to order.

FILTERS FOR PHOTO-MICROGRAPHY.

NAPHTHOL YELLOW AND URANINE.

PURE MONOCHROMATIC GREEN.

SIGNAL GREEN.

PURE MONOCHROMATIC BLUE.

LIGHT MEDIUM AND DARK YELLOW.

LIGHT AND DARK ORANGE.

Same sizes and prices as Unmeasured Light Filters, see above.

LIGHT FILTERS

for photographing Wash Drawings made with Chinese White under the Electric Light.

It is well known to every Process Worker that £ s. d.

Chinese White under the Electric Light photographs are grey instead of white. By the use of this filter, correct representation may be easily secured without very considerably increasing the necessary exposure $3\frac{1}{4}$ in. \times $3\frac{1}{4}$ in. 1 1 0

NEUTRAL TINT FILTERS

We keep a stock of thin neutral tint glass in several depths of tint, ground and polished, suitable for sun caps, equalization of two lights, adjustment of colour cameras, etc.

SQUARE.				CIRCULAR.			
$1\frac{5}{8}$ in.	2 in.	$2\frac{1}{2}$ in.	$3\frac{1}{4}$ in.	1 in.— $1\frac{5}{8}$ in.	2 in.	$2\frac{1}{2}$ in.	$3\frac{1}{4}$ in.
7/6	10/-	12/6	15/-	8 6	10/-	15/-	20/-

Ditto, for use when trimming or adjusting Electric Arc or other powerful lights.

POT METAL, ground and polished, 3 in. square each 4 0

Other sizes cut to order at 6d. per inch., minimum 2/6, except for quantity of one size.

COLOUR FILTERS

for use in MILITARY OR NAVAL FIELD-GLASSES, etc., for rendering the firing of smokeless powder visible... .. 2 in. square, each 10 6

Any size square or circular to order.

CAMERAS AND REPEATING BACKS FOR LANTERN TRANSPARENCY WORK.

No. 1. Repeating Back for attachment to any £ s. d.			
quarter or half-plate front Focussing Camera, fitted with a set of "Sanger Shepherd" Measured Three-Colour Filters, adjusted for use with the Rapid Spectrum Plate, and one double dark slide with best ebonite draw-out shutters taking plates $8 \times 3\frac{1}{2}$ inches, large enough for full-size lantern slides, allowing for the space taken out of $3\frac{1}{4}$ inches square by the binding strips			
	...	4	10 0
Extra Double Dark Slides	... .. each	10	6

BOX CAMERA.

Polished mahogany Box form Camera fitted with rack and pinion focussing device, detachable No. 1 Repeating Back, as above, and table stand with slotted-strut adjustment, R.R. Lens			
	...	7	7 0

CAMERA WITH FALLING DARK SLIDES.

Camera with falling Dark Slides and Colour Filters, fitted with shutters and safety blind opened by a pneumatic bulb. After setting the Camera, the first pressure of the bulb opens the shutter, the second pressure closes the shutter, automatically changes the plate and filter and opens the lens, the third pressure of the bulb closes the shutter, again changes plate and filter and opens the shutter, a fourth pressure of the bulb closing the shutter. By this device very

much time is saved, as with a good light a portrait set of three negatives can be exposed with certainty in less than forty-five seconds ...

PICTURE CAMERA.

Camera fitted with three R.R. Lenses and Dark Slide to take three negatives on a plate $8 \times 3\frac{1}{8}$ in. for Lantern Slide Pictures, fitted with rack and pinion focussing and Three-Colour Light Filters for the Rapid Spectrum plate. Suitable for copying paintings or any flat surface, or for landscapes, without foreground, sunsets, etc. The most rapid form of camera for this class of work; exposure for all three negatives in good light, about three seconds

THE SANGER SHEPHERD TRIPLE CAMERA.

Camera for taking Three Negatives at one time, from £ s. d.
one point of view and with only one lens, the negatives being taken on three plates $3\frac{1}{4}$ in. square, held in three separate single dark slides. The best Camera for all moving objects, landscapes, portraits, etc.... .. 25 0 0

TRIPOD STANDS.

Extra Strong and Rigid Folding Ash Tripod Stand,
with 6 in. top, for use with any of above ... 1 2 6
Wooden or Solid Leather Cases to order.

EXHIBITION FRAMES.

Highly-finished polished mahogany Exhibition Frames for Natural Colour Lantern Slides, to hang against a window, fitted with secret dovetail fastenings :— *s. d.*

To hold 8 slides, $3\frac{1}{4} \times 3\frac{1}{4}$ ...	...	...	...	10	6
„ 15 „ „ „ ...	...	...	...	15	0

Ditto, with polished mahogany hinged base and adjustable brass struts, ground pot, opal reflector, to stand on a table :—

To hold 8 slides ...	...	...	...	...	£1 0 0
„ 15 „ „ „ ...	...	...	...	...	1 10 0

SAFE LIGHT LANTERN

for Incandescent Electric Lamp, to take a 10×8 *s. d.*

CADETT SAFE LIGHT. Fits on any ordinary lamp socket, and is provided with an arrangement for tilting the lantern to any angle ... 12 6

Safe Lights for Lanterns principally made with fired stained glasses.

A. For all ordinary plates and Isochromatic plates not extremely sensitive to the red end of the spectrum ; Edwards' Isochromatic, Ilford Chromatic, Mawson & Swan's, etc.

B. For the Cadett Spectrum Plates, Lumiere B, or other extremely red sensitive plate.

PRICES.

$8\frac{1}{2}$ in. \times $6\frac{1}{2}$ in.	...	10 in. \times 8 in.	<i>s. d.</i>
4/6		5/6	

Amateur's Lantern to burn "Fairy Lights," fitted with Safe Light for the Cadett Rapid Spectrum Plate ... 12 6

Also supplied fitted for gas, same price.

NATURAL COLOUR PHOTOGRAPHY.

(SANGER SHEPHERD PROCESS.)

Complete developing and printing outfit for Tri-
chromatic Lantern Slides, containing all neces-
sary apparatus, trays, special printing frames,
clips, solutions, plates, films and material for
developing the negatives, printing the separate
sensation transparencies and mounting. ... 4 4 0

For Colour Filters and Cameras see ante.

Cadett Rapid Spectrum Plates for lantern slides,
repeating backs and cameras, $8 \times 3\frac{1}{2}$ in. per doz. 4 0

Cadett Lantern Plates, $3\frac{1}{4}$ in. \times $3\frac{1}{4}$ in. ,, 1 0

THE SANGER SHEPHERD UNIVERSAL DEVELOPER.

PACKED IN SEALED GLASS TUBES.

The best of all developers for portrait, landscape and hand-camera work, lantern slides, black and white and bromide paper, and the only developer for Orthochromatic or Three-Colour Photography.

Tubes of No. 1, $15/6$ per dozen ; $1/4$ per tube.

Tubes of Nos. 2 and 3, $8/6$ per dozen ; 9d. per tube.

NOTE.—Nos. 2 and 3 are packed in one tube.

Box of Nos. 1 and 2 and 3, with plunger, $2/1$; post free, $2/3$.

Box of three tubes of No. 1, post free, $4/-$.

Extra plungers, 1d.

Special Dishes , with fluted glass bottoms, mahogany sides, with American dovetail joints, thoroughly celluloid varnished inside, $8\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{2}$ deep, for developing the lantern-size camera and repeating-back negatives each	s. d. 4 6
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SANGER SHEPHERD & CO.'S HARD CRYSTAL CELLULOID ENAMEL FOR VARNISHING DRY PLATES.

A water-white preparation, giving the greatest possible protection to the negative, flows like oil, drying to a thin hard bright film, entirely free from ribbing, grain, mottling or drainage marks, and quite impervious to water or acids	s. d.
per bottle	3 6

DIRECTIONS.—*Use cold, flow over the negative and place in a rack to dry.*

SANGER SHEPHERD PLATE BACKING IN PREPARATION.

Transparent flexible coated films for the Sanger Shepherd Process of Natural Colour Photography, $6\frac{1}{2}$ in. \times $3\frac{1}{4}$ in. per dozen	s. d. 4 3
Sensitizing Salts for sensitizing the films for the pink and yellow impressions ... per 2 oz. bottle	9

A fine dry neutral powder, sufficient for making 160 oz. of sensitizer, very valuable for all carbon processes, reducing insolubility troubles to a minimum.

STAINING SOLUTIONS

FOR THE

Sanger Shepherd Process of Natural Colour Photography.

	<i>s.</i>	<i>d.</i>
Minus Red or Blue-Green Staining Solution, per bottle	1	6
*Minus Green or Pink Staining Solution ,,	3	6
*Minus Blue or Yellow Staining Solution ,,	3	6

* These are compound mixtures of dyes accurately compounded by the aid of the spectroscope.

Concentrated solutions sufficient for several hundred pictures.

White Hard Crystal Varnish for Photographic Films, the best varnish for celluloid or other films, ap- plied cold per bottle	<i>s.</i>	<i>d.</i>
	2	6
Specially prepared light Canada Balsam, for sealing the triple prints ; ready for use ... per bottle	2	6
<hr/>		
Special thin White Cover Glasses ... per dozen		9
The Sanger Shepherd Visible Fraction Tint Actino- meter, for timing exposures of the prints ...	5	0

EXTRA PRINTING FRAMES.

	<i>s.</i>	<i>d.</i>
Special printing frames to take three $\frac{1}{4}$ -plates for printing the separate impressions on one film, double jointed for examination each	5	6
Polished plate glass fronts for ditto ,,	2	0

CLIPS FOR PRINTING OUTFITS.

Special spring clips for use in mounting the triple prints ; polished maple, 6 in. long, each 9 d. ;	s. d.
per dozen	8 6
Strong short steel clips, for registering	„ 1 6
Special broad rag-made binders, double gummed with pure gum per box	1 4

NEGATIVE BOXES.

Best caddy lid grooved negative boxes to hold fifty-eight repeating back plates, 8 by $3\frac{1}{2}$... each	6 6
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THREE COLOUR PROCESS APPLIED TO THE PRINTING PRESS.

Specifications for complete plants furnished on receipt of full statement of requirements.

The Sanger Shepherd Measured Coloured Filters for £ s. d.
 Typographic Printing Processes (Messrs. Pen-
 rose & Co., Sole Agents), $3\frac{1}{4}$ in. \times $3\frac{1}{4}$ in.
 (per set of three)... .. 5 5 0
 For Colour Filter Holders see page

DEVELOPING TRAYS FOR THREE-COLOUR WORK.

TRAYS with fluted glass bottoms, mahogany sides with American dovetail joints, thoroughly celluloid varnished inside.

$10\frac{1}{2}$ in. \times $4\frac{1}{2}$ in. \times $1\frac{1}{2}$ in. deep inside for developing $3\frac{1}{4}$ plates side by side... ..	each	5 0
Ditto for $3\frac{1}{2}$ plates, 15 in. \times 7 in. \times $2\frac{1}{2}$ in. deep, ,,		8 6
Ditto for $3\frac{1}{1}$ plates, $20\frac{1}{2}$ \times 9 in. \times $2\frac{3}{8}$ in. deep, ,,		12 6

Very much lighter than porcelain and more convenient to hold than celluloid.

Any other sizes to order at short notice.

REPEATING BACKS

for attachment to any studio camera for making trichromatic negatives for Collotype or Typographic Printing.

Repeating Back with single dark-slide, to take three plates $8\frac{1}{2}$ in. \times $6\frac{1}{2}$ in. side by side. All woodwork polished mahogany, lacquered brass fittings and thick ebonite shutters to draw right out. Spring latch register 5 5 0

Extra dark slides, each ...	...	...	...	...	£1 18 0
Outside dimensions of repeating back over all, 36 in.					
by 13 in. by $1\frac{3}{4}$ in. ...	...	...	...	...
Outside dimensions of dark slide, $22\frac{1}{4}$ in. \times 11 in.					
by $1\frac{1}{2}$ in. ...	...	...	...	...
Ditto for three half plates ($6\frac{1}{2}$ in. \times $4\frac{3}{4}$ in.) repeating					
back and slide ...	...	...	...	...	2 10 0
Extra dark slides ...	...	...	...	...	1 0 0
Ditto for three quarter plates ($4\frac{1}{4}$ in. \times $3\frac{1}{4}$ in.)					
repeating back and slide ...	...	...	...	...	2 0 0
Extra dark slides ...	...	...	...	...	15 0

Every description of apparatus and material for Process Work, Half-Tone and Line Etching. Drying and Dusting Boxes for Photogravure, Cameras, Camera Stands and Floating Frames for Studio use. Photo-spectroscopes with Prisms or Diffraction Gratings.

NATURAL COLOUR LANTERN SLIDES.

(SANGER SHEPHERD PROCESS.)

A number of subjects from negatives by J. CADETT, R. L. COCKS, SANGER SHEPHERD, W. KENT, and others, are now ready and the list is being increased daily. £ s. d.

The following are ready for delivery each 10 6

Scarlet Gloxinia and Morpho Butterfly, Pink Roses,

Crimson Orchids, Dendrobium and Blue But-

terfly, Dendrobium and Humming Bird, Catt-

leyas, Japanese Fans and Butterflies, Japanese

Dolls, Swiss Landscape, Gold Fish, etc., etc.

Any of the above can be shown in an ordinary Lantern.

Stereoscopic Transparencies 15 0

Rates for Printing from Negatives made with our Colour Cameras:—

One Proof from a negative 15 0

After Copies 10 6

Three Lantern Slides from one negative including
proof 1 11 6

IN ACTIVE PREPARATION.

An improved Science Lantern with many novel features and conveniences for adjustment, etc.

Particulars on application.

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